

V&V Summary Report

L2 ASCDS Version : 10

Observation 15657 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Dec 4 2014

See [axaff15657N002_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.068352856696

Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.

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Zeroth order piled up. The zeroth order sky position was determined using a software tool developed by CXC called findzero, which is available in CIAO as part of the tgdetect2 tool. The tool calculates the point of intersection of the readout streak on the ACIS CCD and the leg dispersed spectral arm, rather than using a centroid position of the source. The findzero results are more accurate than source centroid in this case.

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Gain and CTI correction are not well calibrated on CCD_ID 5 (ACIS-S1). Default order sorting can clip some regions, particularly longward of 30A (first order). User-specified custom processing parameters may be required in tg_resolve_events (osipfile=None, osort_lo, osort_hi ~0.5) though this can allow more zeroth order background at short wavelengths.

seq_num	401511	Sequence number
obs_id	15657	Observation id
title	Characterizing the photoionized gas in the dipper 4U1916-05	Propos
observer	Dr. Jelle Kaastra	Principal investigator
object	4U1916-05	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	289.699583	Observer's specified target RA [deg]
dec_targ	-5.238056	Observer's specified target Dec [deg]
ra_nom	289.71079001542	Nominal RA [deg]
dec_nom	-5.2559093757031	Nominal Dec [deg]
roll_nom	129.15765532727	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30068.352856696	Sum of GTIs [s]
liveltime	28143.347862875	Livetime [s]
ontime5	30068.311816692	Sum of GTIs [s]
ontime6	30068.270776689	Sum of GTIs [s]
ontime7	30068.352856696	Sum of GTIs [s]
ontime8	30067.588696659	Sum of GTIs [s]
l2events	180168	Number of level 2 events

